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MEETING ABSTRACT Open Access

Chronic muscular Pain treatment with Muscular Acoustic Modulator Device in elderly

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Background

Muscles Contractures are an important part of multifactorial etiology of chronic pain.

MAM® is an acoustic waves device modulated in power and frequency (0-50 Hz, 0-5 Bar) for treatment of muscular contractures.

If the treatment of the chronic muscular contractures with MAM® can improve quality life in elderly.

Materials and methods

We have analyzed the results of a comprehensive examination of 5 over 60 age patients (Group 1: aged 76+/-5,2 years) and 5 control over 60 age patients (Group 2; aged 74+/-2,2 years). Every group was studied with a manual objective examination of the skeletal muscle apparatus to find perceived and evoked contractures reported on a paper map support. This map allows to transfer with accuracy to the physiotherapist which are the points on which he must make MAM® treatment.(Group 1: contractures 22,8 +/-1,47 ; Group 2: contractures 23,4 +/-2,03). To each group was given a BPI-sf (Brief Pain Inventory) to have a review of quality life the first day of examination and at the last day of treatment. Group 1 was treated with an acoustic wave modulator device

Table 1

	N. pts.	Aged	Contracture points I treatment	Contracture points IV treatment	BPI before	BPI after
Group 1	5	76+/-5,2years	22,8+/-1,47	6,8+/-2,7	5,8+/-3,46	0,5+/-0,93
Group 2	5	74+/-2,2 years	23,4 +/-2,03	24,2 +/-1,42	6,4+/-1,27	6,2+/-2,66

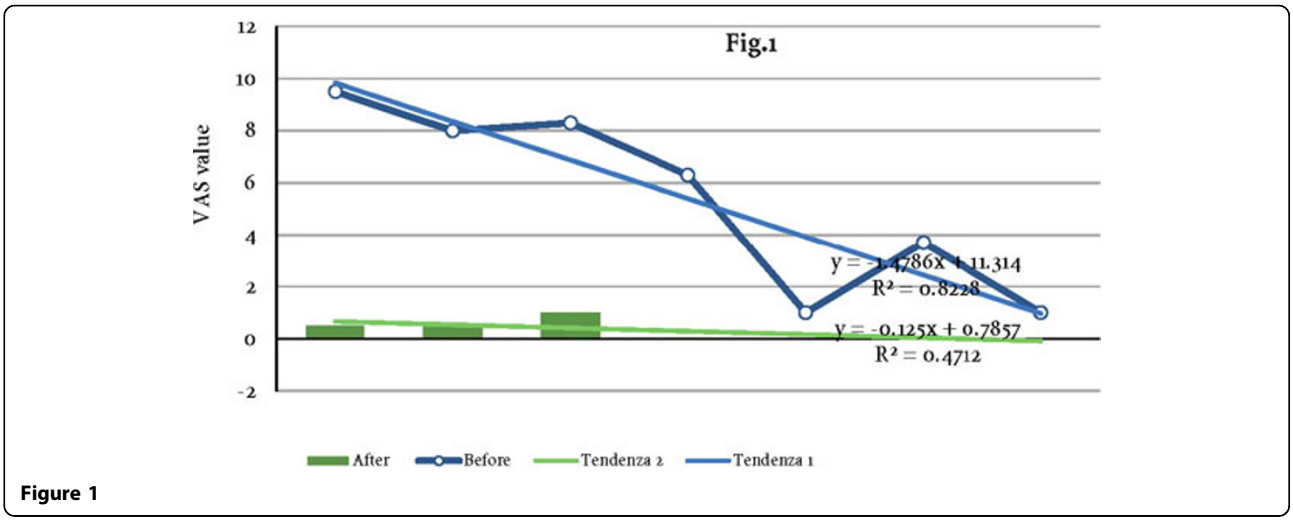

Figure 1

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(MAM®) , once a week, for four weeks. Each point was treated three times every sitting (16 sec for point). Group 2 was not treated

Results

We have observed in Group 1 a reduction of contracture points after IV treatment with MAM® and an improvement of quality life value with BPI test taking average of all the averages of VAS respect Group two, as shown in Table 1 and Figure 1.

Conclusions

Treatment of chronic muscular pain with acoustic MAM® device reduces VAS value in BPI from 5,8+/-3,46 to 0,5+/-0,93, reduces of 70% muscular contractures and improve quality life in elderly.

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